

8) Create an android application to demonstrate GridView

1 Make a java class file with the name *ImageAdaptor.java*

2. Download some images and name it **sample0.jpg**, **sample1.jpg**, **sample2.jpg** etc and paste it in **/src/drawable/** folder of your android studio

### activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<GridView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/gridview"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:columnWidth="120dp"
    android:numColumns="3"
    android:verticalSpacing="10dp"
    android:horizontalSpacing="10dp"
    android:stretchMode="columnWidth"
    android:gravity="center"
/>
```

### MainActivity.java

```
package com.example.imageinsertion;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.widget.GridView;

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        GridView gridView = (GridView)
            findViewById(R.id.gridview);
        gridView.setAdapter(new
            ImageAdaptor(this));
    }
}
```

### ImageAdaptor.java

```
package com.example.imageinsertion;
import android.content.Context;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.GridView;
import android.widget.ImageView;

class ImageAdaptor extends BaseAdapter {
    private Context mContext;
```

```

// Constructor
public ImageAdaptor(Context c) {
    mContext = c;
}

public int getCount() {
    return picIds.length;
}

public Object getItem(int position) {
    return null;
}

public long getItemId(int position) {
    return 0;
}

// create a new ImageView for each item
//referenced by the Adapter
public View getView(int position, View
    convertView, ViewGroup parent) {
    ImageView imageView;

    if (convertView == null) {
        imageView = new ImageView(mContext);
        imageView.setLayoutParams(new
            GridView.LayoutParams(85, 85));

        imageView.setScaleType(ImageView.ScaleType.CENTER_CROP);
        imageView.setPadding(8, 8, 8, 8);
    }
    else
    {
        imageView = (ImageView) convertView;
    }

    imageView.setImageResource(picIds[position]);
    return imageView;
}

// Keep all Images in array
public Integer[] picIds = {
    R.drawable.sample2,
    R.drawable.sample3,
    R.drawable.sample4,
    R.drawable.sample5,

    R.drawable.sample6,
    R.drawable.sample7,
    R.drawable.sample1,
    R.drawable.sample2,
    R.drawable.sample3,
    R.drawable.sample4,
    R.drawable.sample5,
    R.drawable.sample6,
    R.drawable.sample7,
    R.drawable.sample1,
    R.drawable.sample2,
    R.drawable.sample3,
    R.drawable.sample4,
    R.drawable.sample5,
    R.drawable.sample6,

```

```
R.drawable.sample7  
    , R.drawable.sample1  
};  
}
```

## OUTPUT

